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STN Files: AGRICOLA, ANABSTR, AQUIRE, BELISTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CARREAT, CHERCATS, CHENINERRY, CHEMIST, CIN, CSCHEM, DETHERM*, EMEASE, IFICOLB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NAPRALERT, PIRA, RIECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data) other Sources: ENECS*, NOSL*, TSCA** (**Enter CHEMLIST File for up-to-date regulatory information)
                                                                                                                                                                    L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN ED Entered STN: 16 Nov 1984 CN 9(10H)-Acridione (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:
CN 9-Acridione (6CI, 8CI)
OTHER NAMES:
CN 9-Acridione (6CI, 8CI)
OTHER NAMES:
CN 9-Acridione
CN Acridione
CN Acridione
CN Acridine 9,10-dihydro-9-oxo-
CN Acridine 9,10-dihydro-9-oxo-
CN Acridine CN
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CK 103
CK 103 (heterocycle)
NSC 408196
NSC 7664
790240-54-9
C13 H9 N O
COM
STN Files: AGRICOLA
STN Files: AGRICOLA
                                                                                                                                                                                                                                                                                                                                                => S acridone/CN
L3 1 ACRIDONE/CN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     => D L3 1
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

763 REFERENCES IN FILE CA (1907 TO DATE)
121 REPRENCES TO NON-SPECIFIC DESTAPATIVES IN FILE CA
765 REFERENCES IN FILE CAPLUS (1907 TO DATE)
39 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> Uploading C:\Documents and Settings\dstitzel\My Documents\STN\10651876\acridone.str

STRUCTURE UPLOADED ī

=> D L1 L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> S L1 SSS SAM SAMPLE SEARCH INITIATED 15:16:09 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 22 TO ITERATE

22 ITERATIONS 100.0% PROCESSED SEARCH TIME: 00.00.01

0 ANSWERS

721 ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*

159 TO 72: PROJECTED ITERATIONS: PROJECTED ANSWERS:

FULL FILE PROJECTIONS:

0 SEA SSS SAM L1

17

=> S 11 SSS FULL FULL SEARCH INITIATED 15:16:21 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 508 TO ITERATE

508 ITERATIONS 100.0% PROCESSED SEARCH TIME: 00.00.01

1 ANSWERS

1 SEA SSS FUL L1

**F**3

=> D L3 1

ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN 675141-08-9 REGISTRY SESE

Entered STN: 14 Apr 2004 9(10H)-Acridinone, 1-hydroxy-7-methoxy-3-(1-methylethoxy)- (9CI) INDEX NAME)

ą

H17 N 04 SR

CA, CAPLUS, CASREACT, USPATFULL CA STN Files:

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

REFERENCES IN FILE CA (1907 TO DATE)
REFERENCES IN FILE CAPIUS (1907 TO DATE)

TOTAL SESSION 198.59 SINCE FILE ENTRY 169.28 => FILE CAPLUS COST IN U.S. DOLLARS FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:16:56 ON 03 NOV 2006
USE IS SUBADET TO THE TERMS OF YOUR STR CUSTOMER AGREEMENT.
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VOL 145 ISS 20 (20061102/ED) FILE COVERS 1907 - 3 Nov 2006 FILE LAST UPDATED: 2 Nov 2006 Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> S L3

2 L3

=> D L4 1-2

COPYRIGHT 2006 ACS on STN ANSWER 1 OF 2 CAPLUS 2005:185388 CAPLUS I I I I I I

A preparation of acridone derivatives, useful as anti-herpes virus agents Bastow, Kenneth F.; Lowden, Christopher T.

142:280068

U.S. Pat. Appl. Publ., 19 pp. CODEN: USXXCO

English Patent

20030829 DATE APPLICATION NO. US 2003-651876 20050303 DATE KIND A1 US 2005049273. PATENT NO. PI

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lowden, C. T.; Bastow, K. F. School of Products, School of Planmacy, Division of Medicinal Chemistry and Natural Products, University of North Carclina at Chapel Hill, Chapel Hill, NC, 27599, USA Antivital Research (2003), 59(3), 143-154 COBEN: ARSRD; ISSN: 0166-3542 Elsevier Science B.V.
                                  Cell culture replication of herpes simplex virus and, or human cytomegalovirus is inhibited by 3,7-dialkoxylated, 1-hydroxyacridone
                                 5.83
                                                                                                                                                                                                                                                                                                                                 PB Elsevier Science
DT Journal
LA English
OS CASREAT 140:280725
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT
                                 RI,
                               BY,
KR,
KR,
KR,
KY,
YU,
UG,
UG,
                                                                                                                                                                                                  ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN 2003:625947 CAPLUS 140:280725
                                                                             SD, US,
                                                GE, GH, GH, HR, HU, ID, II, IN, IE
IK, IR, S, IT, IU, IV, MA, MD, MC
NO, NZ, OM, PC, PH, PL, PT, RO, RI
TJ, TM, TN, TR, TT, TZ, UA, UG, UG,
RW: BW, GH, GM, KE, IS, MW, MZ, NA, SI
AZ, BY, KG, KZ, MD, RU, TJ, TW, R,
EE, FI, FR, GB, GR, HU, IE, TI
SI, SK, TR, BF, BJ, CF, CG, CI, CI
SN, TD, TG
AI US 2003-651876

A 20030829

GASREACT 142:280068; MARPAT 142:280068
derivatives
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FILE 'BIOSIS' ENTERED AT 15:17:37 ON 03 NOV 2006 0 S L3

1.5 Ľ4

=> D L1 L1 HAS NO ANSWERS L1 STR

2 S L3

20040803

WO 2004-US24837

Structure attributes must be viewed using STN Express query preparation.

TOTAL SESSION 201.33

SINCE FILE ENTRY 2.74

FILE COVERS 1969 TO DATE. CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

FILE 'BIOSIS' ENTERED AT 15:17:37 ON 03 NOV 2006 Copyright (c) 2006 The Thomson Corporation

=> FILE BIOSIS COST IN U.S. DOLLARS FULL ESTIMATED COST RECORDS LAST ADDED: 1 November 2006 (20061101/ED)

0 13

=> D HISTORY => S L3 L5

(FILE 'REGISTRY' ENTERED AT 15:13:43 ON 03 NOV 2006) DELETE HISTORY

FILE 'REGISTRY' ENTERED AT 15:15:32 ON 03 NOV 2006 STRUCTURE UPLOADED 0 S L1 SSS SAM 1 S L1 SSS FULL

222

FILE 'CAPLUS' ENTERED AT 15:16:56 ON 03 NOV 2006

=> Uploading C:\Documents and Settings\dstitzel\My Documents\STN\10651876\acridone derivative.str

STRUCTURE UPLOADED

L1

=> D L1 L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> S L1 SSS SAM SAMPLE SEARCH INITIATED 15:20:17 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 374 TO ITERATE

100.0% PROCESSED 374 ITERATIONS SEARCH TIME: 00.00.01

O ANSWERS

FULL FILE PROJECTIONS:

ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*
6320 TO 8640 PROJECTED ITERATIONS: PROJECTED ANSWERS:

8640

0 SEA SSS SAM L1

=> S L1 SSS FULL FULL SEARCH INITIATED 15:20:26 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 7833 TO ITERATE

100.0% PROCESSED 7833 ITERATIONS SEARCH TIME: 00.00.01

1 ANSWERS

L3

1 SEA SSS FUL L1

=> D L3 1

SESS

ANSWER I OF 1 REGISTRY COPYRIGHT 2006 ACS on STN 675141-008-9 REGISTRY Entered STN: 14 Apr 2004 9 [10H]-Acridinone, 1-hydroxy-7-methoxy-3-(1-methylethoxy)- (9CI) (CA CI) HIT N O4

CA, CAPLUS, CASREACT, USPATFULL CA STN Files:

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> D HISTORY

(FILE 'BIOSIS' ENTERED AT 15:17:37 ON 03 NOV 2006) DELETE HISTORY

FILE 'REGISTRY' ENTERED AT 15:19:13 ON 03 NOV 2006 STRUCTURE UPLOADED 0 S L1 SSS SAM 1 S L1 SSS FULL

222

=> D L1 L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

ANSWER 1 OF 1 DISSABS COPYRIGHT (C) 2006 ProQuest Information and Learning Company; All Rights Reserved on STN SION NUMBER: 2001:62420 DISSABS 'Order Number: AAI3007835 ACCESSION NUMBER: 1.6

Lowden, Christopher Todd [Ph.D.]; Bastow, Kenneth [adviser] The University of North Carolina at Chaple Hill (0153) Dissertation Abstracts International, (2001) Vol. 62, No. 3B, p. 1398. Order No.: AAI3007835. 147 pages. Dissertation Dissertation

AUTHOR: CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: FILE SEGMENT: LANGUAGE:

Human Cytomegalovirus (HCWV) and Herpes Simplex Type I Virus (HSV-1) are two herpes viruses that frequently arise as opportunistic infections in immuno-compromised individuals (Caverr, 1997). Many drug resistant in immuno-compromised individuals (Caverr, 1997). Many drug resistant in immuno-compromised individuals (Caverr, 1997). Many drug resistant strains of herpes viruses have been identified (Erice, A., 1999). Thus, it is important to identify and develop new lead molecules with antiherpes activity. 3, "Dimethoxy-1-hydroxyacridone was hard being discovered during a screen of 1,3-dihydroxyacridones that HSV-1 replication, respectively, in in vitro tissue culture assays. The HSV-1 replication, respectively, in in vitro tissue culture assays. The HSV-1 replication, respectively, in in vitro tissue culture assays. The resolute the activity relationships around mammalian topoisomerase II inhibition. The results of the HSV-1 studies prompted of these molecules was based on the fact that toposisomerase II is a cellular target that is required by viruses to carry out viral replication. Interestingly, 5-chloro-1,3-dihydroxyacridone was not an inhibitor of topolsomerase II. The results of the HSV-1 studies prompted a second screen for HCWV inhibition. The second screen identified 3, "dimethoxy1-hydroxyacridone as a highly selective and potent HCWV lead. Both lead molecules appear to represent novel structural and or mechanistic classes of antiviral agents. Studies have shown that the HSV-1 lead does not interfere with viral late protein production/accumulation. It has been shown to interfere with the cleavage and packaging part of the viral late protein production/accumulation. It has been shown to interfer show (Manitapidat, P. 1999). Preliminary experiments using the HCWV lead are indicative of a cellular target rather than a viral target. Series of analogs have been prepared for both leads through an iterative process of analog synthesis and biological evaluation. A strategy of bioisosteric replacement, deletion,

Antiviral acridones

SH